

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-7254

Exam Date: 6/17/2009

1. Current Owner: MATT TELFORD
2350 E 3500 N
FILER ID 83328
(208)326-3253

2. Accompanied by: Not accompanied by anyone

Additional Information Obtained by 7/16/2009 Phone Conversation with: Russell A Biggs

Phone No: (208) 280-2162

Address: 631 Sunbeam Dr., Twin Falls, ID 83301

Relationship to Permit Holder: Previous owner, and individual who filed for Permit.

3. SOURCE

WASTE WATER

TRIBUTARY

SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 47-10980 (Domestic/Stockwater); 47-8186 (Irrigation – on hold due to Swan Falls Litigation)

2. Other water rights with the same point of diversion: NONE

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

WASTE WATER

NE1/4SE1/4SW1/4

Sec. 33, Twp 10S, Rge 16E, B.M.

TWIN FALLS County

Method of Determination: GPS/Garmin

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
10S	16E	33												8.0					8.0

Total Acres: 8

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☐ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☐ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☐ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
	NO Tag	3			6" <u>40 psc</u>

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements: Arc Map Imagery shows ditches, pond, area irrigated (178, 1987, 1990)
No waste water at time of inspection.

Theoretical:

$$\frac{8.8 \times 3 \times 0.70}{(2.31 \times 40) + 10} = \frac{18.48}{102.40} = \boxed{0.18 \text{ cfs}} \text{ maximum capacity of system}$$

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

Maximum capacity from 6" pipe (if full) = 0.98 cfs

$$Q = 5\pi r^2 (r \text{ in ft.})$$

$$R = (\text{diameter}/12)/2$$

$$\pi = 3.1416$$

* concrete weir, but due to no flow, unable to measure from device

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 8 \times 4 = 32.0 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.18 \times 246 \times 1.9835 = 248.$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 32.0 \text{ af}$$

2. Volume Calculations for Other Uses: *None***G. NARRATIVE/REMARKS/COMMENTS**

The waste water ditch runs south of the irrigation companies ditch (at times having up to 12 ft of waste water at the dammed location for the POD). The POD is located in NESESW; 3 hp pump (no tag), 10 ft. lift, 40 psi, 6 inch discharge to 6 inch buried pipe discharging to the pond; it then discharges to 6 inch gated pipe on east side of the pasture, running north to south, with gravity flow east to west. Gated pipe discharges to concrete ditch on south end of property running east to west, with gravity flow south to north (utilizing siphon tubes). A concrete weir is constructed at the southeast corner of the pasture, at the east end of the concrete ditch (measuring device). 1987 and 1992 Arc Map Imagery shows location of pond, area irrigated, and ditches.

Have conditions of permit approval been met? ☒ Yes ☐ No (*weir is measuring device*)

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 11/15	0.160 CFS	32.00 AF
<u>Totals:</u>		0.160 CFS	32.00 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

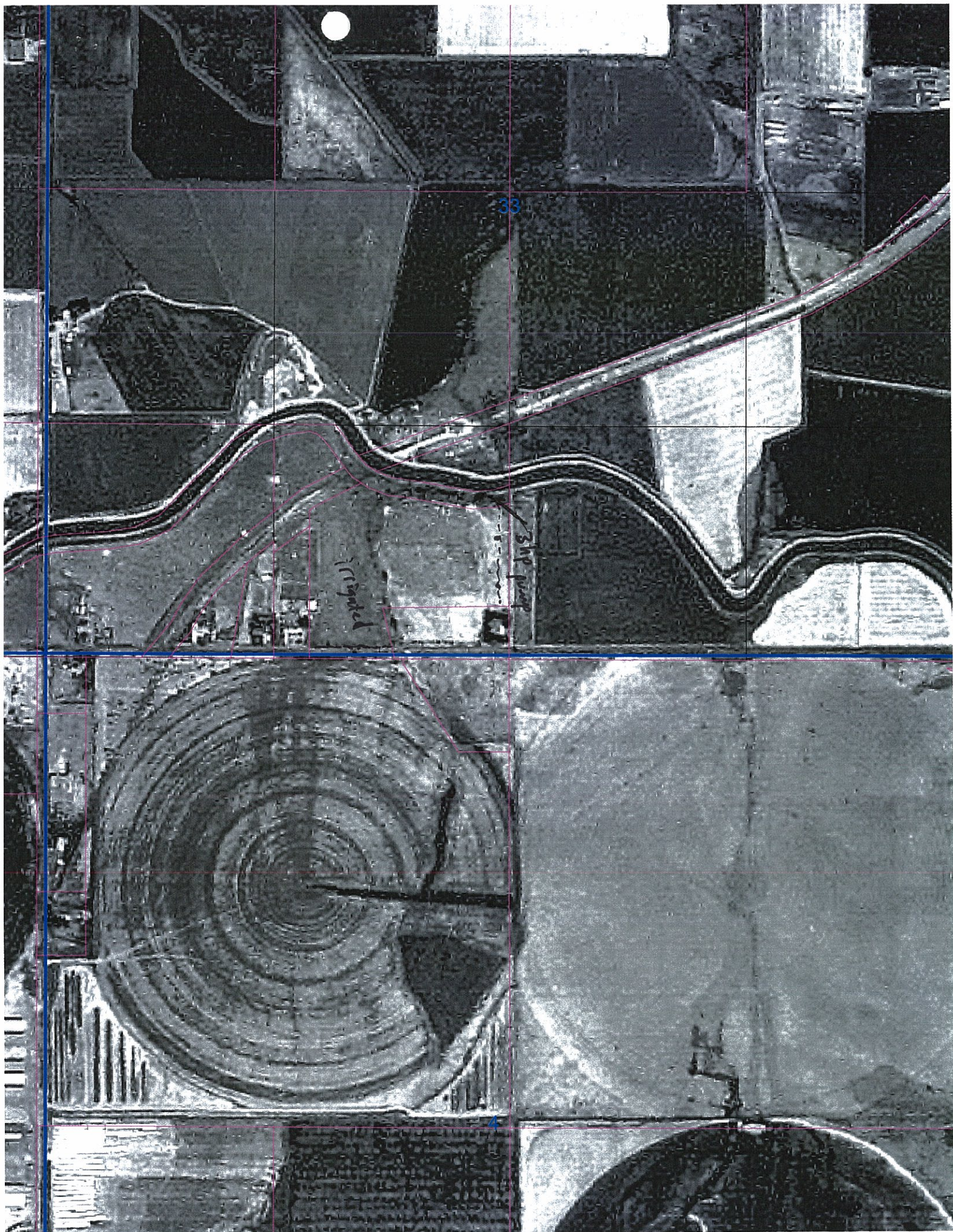
I. AUTHENTICATION

Field Examiner's Name *Janet Hernandez* Date 7/16/2009

Reviewer _____ Date _____



47-7254
1987 Arc Map Imagery

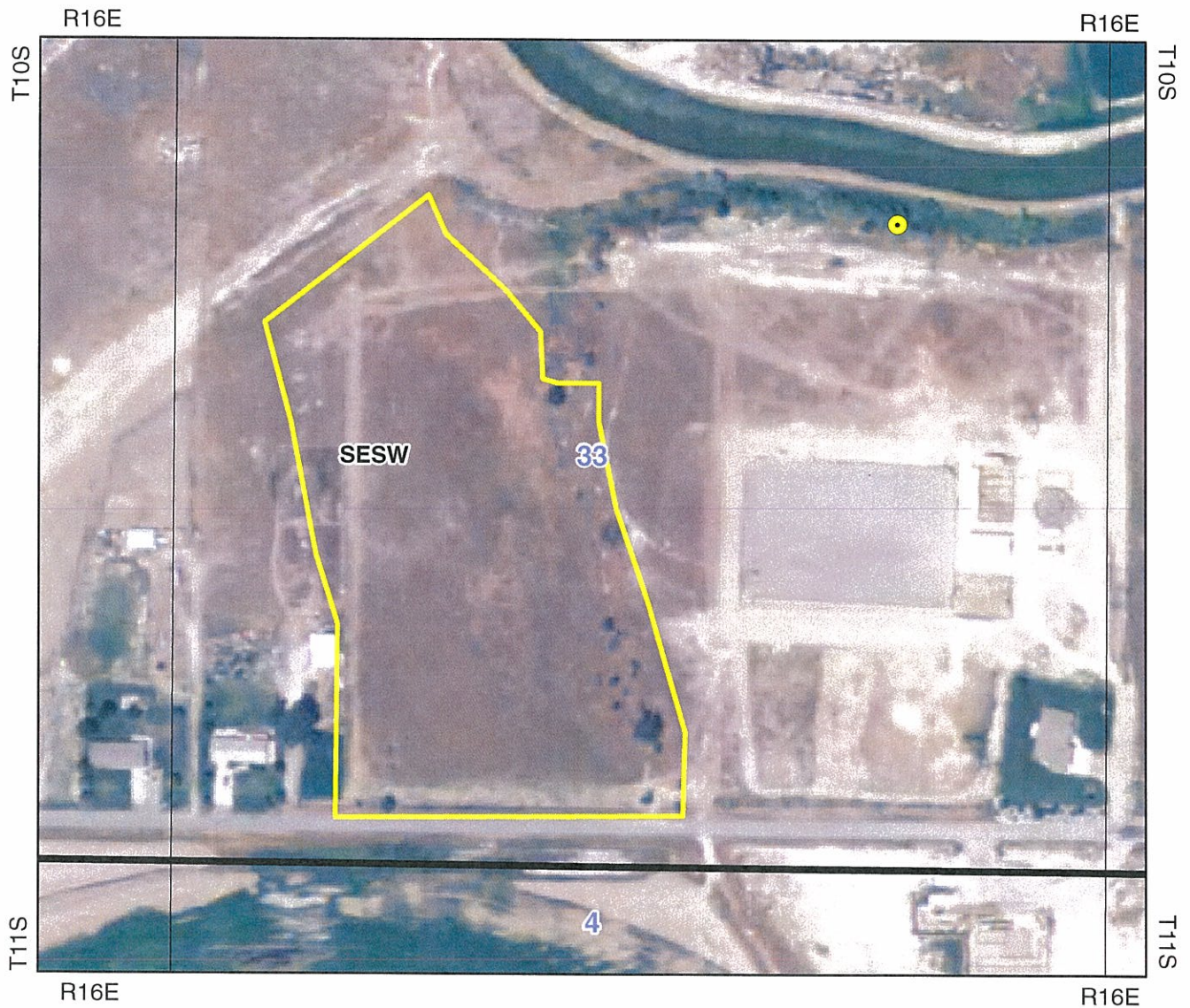


Field Inspection Conducted 6/17/2009

47-7254

Water Service Area Boundary for Matt Telford

July 20, 2009



Legend

-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.03 0.06 0.12 Miles



POD

06/17/2009



POD
waste
water
ditch

06/17/2009

47-7254 Telford

S. Hemminger



POD

06/17/2009



POU

dirt
ditches
used
for
gravity
flow

06/17/2009

47-7254 Telford

S. Hemerway